

# Mehran Naghizadehrokni

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## ► EDUCATIONS

» July 2017 – April 2020      RWTH Aachen University, Germany, **PhD Student.**

\* Geotechnical Engineering

\* Title of the Project: Optimization of the practicability of thin vertical foam barriers in soil as vibration screening measure.

» Oct 2011 – April 2014      Islamic Azad University, Zanzan, Iran, **M.Sc.**

\* Geotechnical Engineering

\* Cumulative Grade Point Average: 16.90/20

\* Title of the Thesis: Estimate the Potential of Liquefaction in Sandy Soils with Reliability Method in Chalos City.

» Sep 2006 – Dec 2010      Tabari University, Babol, Iran, **B.Sc.**      \* Civil Engineering

## ► TECHNICAL SKILLS

\* FEM Analysis & Civil Software: FLAC, PLAXIS, MATLAB, ETABS.

\* Statistical Software: SPSS, NCSS.

\* Drafting: Auto Cad.

\* General: Microsoft Office (Excel, Word ...).

## ► PUBLICATIONS

### ✓ Papers

→ **Mehran Naghizadeh rokni**, (2015). "*Reliability-Based Method for Assessing Liquefaction Potential of Soils* ", 5th Inter. Conf. of Computational Methods in Structural Dynamics and Earthquake Engineering, 25-27 May, Greek, 2015. (Published)

→ **Mehran Naghizadeh rokni**, (2015). "*Reliability analysis of soil liquefaction based on standard penetration; a case study in Babol city* ", Inter. Conf. on Sustainable Civil Engineering, 19-20 September, China, 2015. (Published)

→ **Mehran Naghizadeh rokni**, Rezaei, S. (2015). "*Liquefaction Assessment by Microtremor Measurement in Babol City* ", 5 Inter. Conf. on Geotechnique, Construction Materials and Environment, 16-18 November, Japan, 2015. (Published)

→ **Mehran Naghizadeh rokni**, (2015). "*Checking and comparing the liquefaction potential evaluation methods in sandy soil* ", Inter. Conf. on Modern Achievements in CAEU, 15-16 June, Iran, 2015. (Published)

→ **Mehran Naghizadeh rokni**, (2015). "*Earthquake liquefaction prediction method of surface marks* ", 10 Inter. Conf. on Civil Engineering, 5-7 May, Iran, 2015. (Published)

→ **Mehran Naghizadeh rokni**, (2015). "*Liquefaction Potential Index-Based Approach for Assessing the Probability of Liquefaction* ", 10 Inter. Conf. on Civil Engineering, 5-7 May, Iran, 2015. (Published)

- **Mehran Naghizadeh rokni**, (2015). "Silty soil liquefaction measure ", *Second National Conference on Applied Research in Civil Engineering*, 3-4 March, Iran, 2015. (Published)
- **Mehran Naghizadeh rokni**, (2015). "The Evaluation of Soil Liquefaction Potential Based on Shear Wave Velocity" *3rd International Congress on Civil Engineering*, 29-31 December. (Published)
- **Mehran Naghizadeh rokni**, (2017). "Liquefaction maps in Babol City, Iran through probabilistic and deterministic approaches" *Geoenvironmental Disasters*, Springer Publication. DOI: [10.1186/s40677-017-0094-9](https://doi.org/10.1186/s40677-017-0094-9). (Published)
- **Mehran Naghizadeh rokni**, (2016). "A study of the Effect of Soil Improvement Based on the Numerical Site Response Analysis of Natural Ground in Babol City" *Open Journal of Civil Engineering*. Volume 6, Number 2. (Published)
- **Mehran Naghizadeh rokni**, (2017). "Microzonation of liquefaction hazard using liquefaction index in Babol City" *Geotechnical Engineering Journal of the SEAGS & AGSSEA* Vol. 48 No.4 December 2017 ISSN 0046-5828. (Published)
- **Mehran Naghizadeh rokni**, (2016). "A developed procedure for predicting the risk of liquefaction; Case Study: Rasht City" *International Journal of Geomate*. Vol. 12, Issue 29, pp. 2878-2884. (Published)
- **Mehran Naghizadeh rokni**, (2016). "Evaluating of Dispersive Clay Soils Shear Strength Modified by Alum and Lime" *International Journal of Geomate*. Vol. 12, Issue 29, pp. 156-162, DOI: <http://dx.doi.org/10.21660/2017.29.93287>. (Published)
- **Mehran Naghizadeh rokni**, (2017). "A New Empirical Relationship between Probabilistic and Deterministic Approaches for Assessing Liquefaction Susceptibility Using a Genetic Algorithm" *Proceedings of the Institution of Civil Engineers-Geotechnical Engineering*, ice publishing. (Under Review)
- **Mehran Naghizadeh rokni**, (2017). "Numerical Analysis of Multilayer Geosynthetic-Reinforced Bed over Stone Columns-Improved Soft Clay" *International Journal of Geomate*. Vol. 12, Issue 29. (Accepted and waiting for publishing)
- **Mehran Naghizadeh rokni**, (2017). "Numerical Study of the Effect of Structure on Ground Response" *Bulletin of Earthquake Engineering*. Springer Publication, ISSN: 1570-761X (print version). (Under Review)
- **Mehran Naghizadeh rokni**, (2017). "Seismic Response of Shallow Square Tunnels in Two-layered Ground with Elastic Behavior" *Tunnelling and Undergraduate Space Technology*. Elsevier Publication, ISSN: 0886-7798. (Under Review)
- **Mehran Naghizadeh rokni**, (2017). "Dynamic Behavior of Double and Triple Compound 2D Hills Using BEM" *Engineering Analysis with Boundary Elements*. Elsevier Publication, ISSN: 0955-7997. (Under Review)
- **Mehran Naghizadeh rokni**, (2017). "Seismic Analysis of Arch Embankment Dams Behavior via 3D Modeling" *Earthquake Engineering and Engineering Vibration*. Springer Publication, ISSN: 1993-503X (electronic version). (Under Review)

## ✓ Book

- **Mehran Naghizadeh rokni**, Naghizadeh rokni, M. (2015). "Role of Statics and Tests in Determination of Liquefaction Potential" *Book in Persian*, Published by Raz Nahan Publication.
- **Mehran Naghizadeh rokni**, Afzalirad, M. Rahimi, M. (2017). "Investigating the effect of oil contamination on soil" ISBN number: 978-3-659-93012-6, Book language: English, Published by LAP LAMBERT Academic Publishing.

## ► LANGUAGE PROFICIENCY

### ✓ IELTS Score: 7 Band (Nov. 2015).

\* Speaking: 7.5, Listening: 7, Writing: 6.5, Reading: 6

### ✓ GRE Score: (Dec. 2016).

\* Quantitative: 157, Verbal: 134

## ► PROFESSIONAL EXPERINCES

### ✓ Research Experiences

\* Islamic Republic of Iran, Zanjan Brach, Iran.

*Research Assistance.* (Oct 2013 – Feb 2014)

\* Liquefaction failures of intermediate soils

\* Liquefaction of sands and its effects on buried structure

\* The fundamental modelling of the stress–strain behavior of soils

\* Dynamic Soil-Structure Interaction

\* Granular media

\* Effects of climate change on slope stability in unsaturated pyroclastic soils

\* New mining methods and ground control

### ✓ Teaching Experiences

\* Payame Noor University, Islamic Republic of Iran, Tehran.

*Teaching Academic Lessons.* (July 2014- Nov 2014)

\* Crisis Management Organization, Islamic Republic of Iran, Babol, Iran.

*Assistant Lecturer & Lab Responsible* (Aug 2014 – Dec 2014)

\* University of Babol, Undergraduate Level.

*Lecturer at Steel Structural, Concrete Structural and Road Project.* (Jun 2010- Dec 2010)

### ✓ Work Experiences

\* Talar Gostar Emad Co, Islamic Republic of Iran, Mazandaran, Babolsar.

*Lab Responsible, Project Manager, Designer* (Feb 2011 – Sep 2014)

\* Beton Saze Niavaran, Islamic Republic of Iran, Mazandaran, Ghaemshahr.

*Manager of Co.* (Jun 2011 – Present)

## ► LICENSES AND MEMBERSHIP

\* License of Supervision and Construction Performance in Iran from Ministry of Housing and Urban Development.

\* License of Construction Design Engineering Office from Ministry of Housing and Urban Development.

\* Membership of the Mazandaran Construction Engineering Organization.

\* Membership of Iranian Geotechnical Society, Iran.

\* Membership of Deutsche Gesellschaft für Geotechnik, Germany.

## ► JOURNAL REVIEWER

\* **Open Journal of Civil Engineering**, Scientific research Publication, ISSN Print: 2164-3164, ISSN Online: 2164-3172, Impact Factor: 0.47.

\* **Open Journal of Earthquake Research**, Scientific research Publication, ISSN Print: 2169-9623, ISSN Online: 2169-9631, Impact Factor: 0.54.

\* **Journal of Vibration and Control**, SAGE Publications, eISSN: 17412986, ISSN: 10775463, 2016 Impact Factor: 2.101.

\* **International Journal of Advances in Mechanical and Civil Engineering**, Institute of Research and Journals, ISSN (Print):2394-2827, Impact Factor: 3.664

## ► HONORS AND ACTIVITIES

### ✓ Honors:

- \* One of the Best Score in Master Thesis, Islamic Azad University, Zanjan Branch, Iran.
- \* Ranked among top 10% in the Iranian National University Graduate Entrance Examination.
- \* Passing the Entrance Exam Gifted School in High school.

### ✓ Activities:

- \* Participation in Inter. Conf. on Modern Achievements in CAEU, Iran.
- \* Participation in 10th Inter. Conf. on Civil Engineering, Iran.
- \* Participation in 2nd National Conference on Applied Research in Civil Engineering, Iran.
- \* Participation in 3rd International Congress on Civil Engineering, Iran.